

Ultrasonic precision flowmeter for liquid or gas e.g. water in household water pipe

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Abstract of DE4421692

The flowmeter is designed such that the influence of the instabilities of the emitter/receiver is corrected with a connected electronic unit, to the time differences (DELTA t1) according to the following equation: $\Delta t1_{<k>} = \Delta t1 - (T_{refl,R,i} - T_{refl,L,i})$. In addition by temp. or pressure measurement in the through flowing medium, the time differences (DELTA t1<k>) on the propagation speed of the ultrasonic wave can be calibrated, based on influences by the temp., the pressure or other parameters.

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